Title (en)

MODEL-BASED CORONARY ARTERY CALCIUM SCORING

Title (de)

MODELLBASIERTE HERZARTERIEN-CALCIUM-UNTERSUCHUNG

Title (fr)

NOTATION DU CALCIUM DES ARTÈRES CORONAIRES SUR LA BASE D'UN MODÈLE

Publication

EP 2765915 A1 20140820 (EN)

Application

EP 12839597 A 20121012

Priority

- US 201113274055 A 20111014
- JP 2012077016 W 20121012

Abstract (en)

[origin: WO2013054947A1] A system and method are provided for model-based coronary artery calcium (CAC) scoring. A model image of a heart region is aligned with an image of a patient's heart region in order to more easily identify the coronary arteriesand other relevant anatomical features in the image. Once the images are aligned, relevant calcium plaques are identified by their presence within a coronary artery, and the relevant plaques are then labeled by the specific coronary artery in which they are located. The coronary arteries with the labeled plaques are scored individually based on their size and X-ray attenuation, and an overall score based on all of the relevant plaques is then computed, which is related to the patient's risk for coronary artery disease.

IPC 8 full level

A61B 6/03 (2006.01); **G06T 7/00** (2006.01)

CPC (source: EP US)

A61B 6/03 (2013.01 - US); **A61B 6/032** (2013.01 - EP US); **A61B 6/463** (2013.01 - EP US); **A61B 6/466** (2013.01 - EP US); **A61B 6/503** (2013.01 - EP US); **A61B 6/504** (2013.01 - EP US); **A61B 6/5217** (2013.01 - EP US); **G06T 7/0012** (2013.01 - EP US); **G16H 50/30** (2017.12 - EP); G06T 2200/04 (2013.01 - EP US); G06T 2207/10081 (2013.01 - EP US); G06T 2207/20076 (2013.01 - EP US); G06T 2207/20081 (2013.01 - EP US); G06T 2207/20084 (2013.01 - EP US); G06T 2207/20101 (2013.01 - EP US); G06T 2207/20124 (2013.01 - EP US); G06T 2207/20128 (2013.01 - EP US); G06T 2207/30048 (2013.01 - EP US); G06T 2207/30101 (2013.01 - EP US)

Designated contracting state (EPC)

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